

1 **On-line Supplementary Appendix:**

2 This appendix has been provided by the authors to give the reader additional information
3 about their work.

4 **Acknowledgements**

5 A joint study of the NCIC CTG, SWOG, CTSU and Cancer Research UK, coordinated by the
6 NCIC Clinical Trials Group.

7 **Contents**

8 **Supplementary figures:**

9	Figure S1: Treatment algorithm for patient in intermittent	page 2
10	androgen deprivation arm to enter off treatment interval	
11		
12	Figure S2: Treatment algorithm for patient in off treatment	page 3
13	interval to re-start treatment	
14		
15	Figure S3: Overall survival by treatment arm for 3 Gleason	page 4-5
16	score groups	
17		
18	Figure S4: Cumulative Events Plot for Disease Specific Survival	page 6
19		
20	Figure S5a: Kaplan-Meier plot by treatment arm of the time to	page 7
21	castration resistance	
22	Figure S5b: Kaplan-Meier plot by treatment arm of the time	page 7
23	from declaration of castration resistance to death.	

24 **Supplementary tables:**

25	Table S1: Accrual by Cooperative Group	page 9
26	Table S2: Reasons for Ineligibility	page 10
27	Table S3: Adverse Events	page 11-12
28	Table S4: Phase 2 Trials of Intermittent Androgen Deprivation	page 13
29	Table S5: Phase 3 Trials of Intermittent Androgen Suppression	page 14
30	References	page 15-17
31	List of investigators	page 18-20

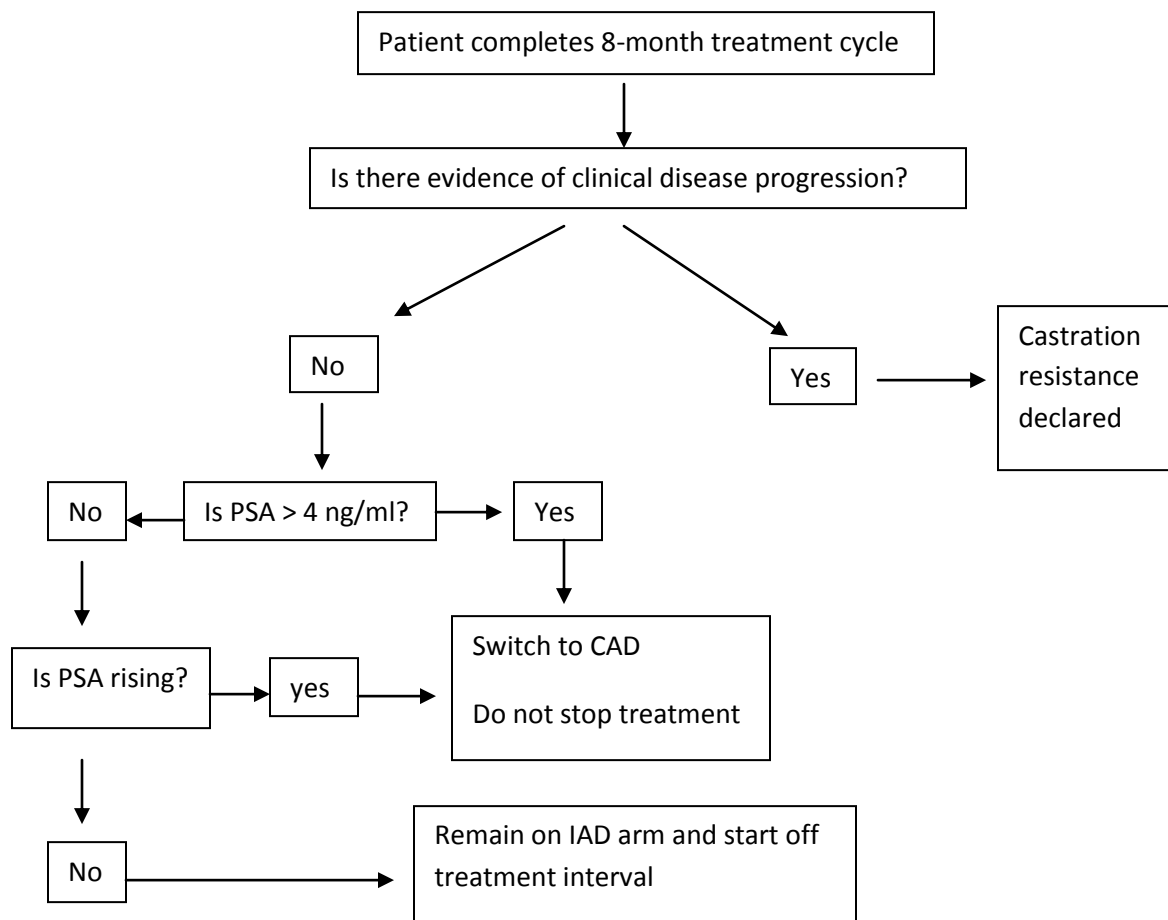
Phase III Trial of Intermittent vs. Continuous Androgen Deprivation

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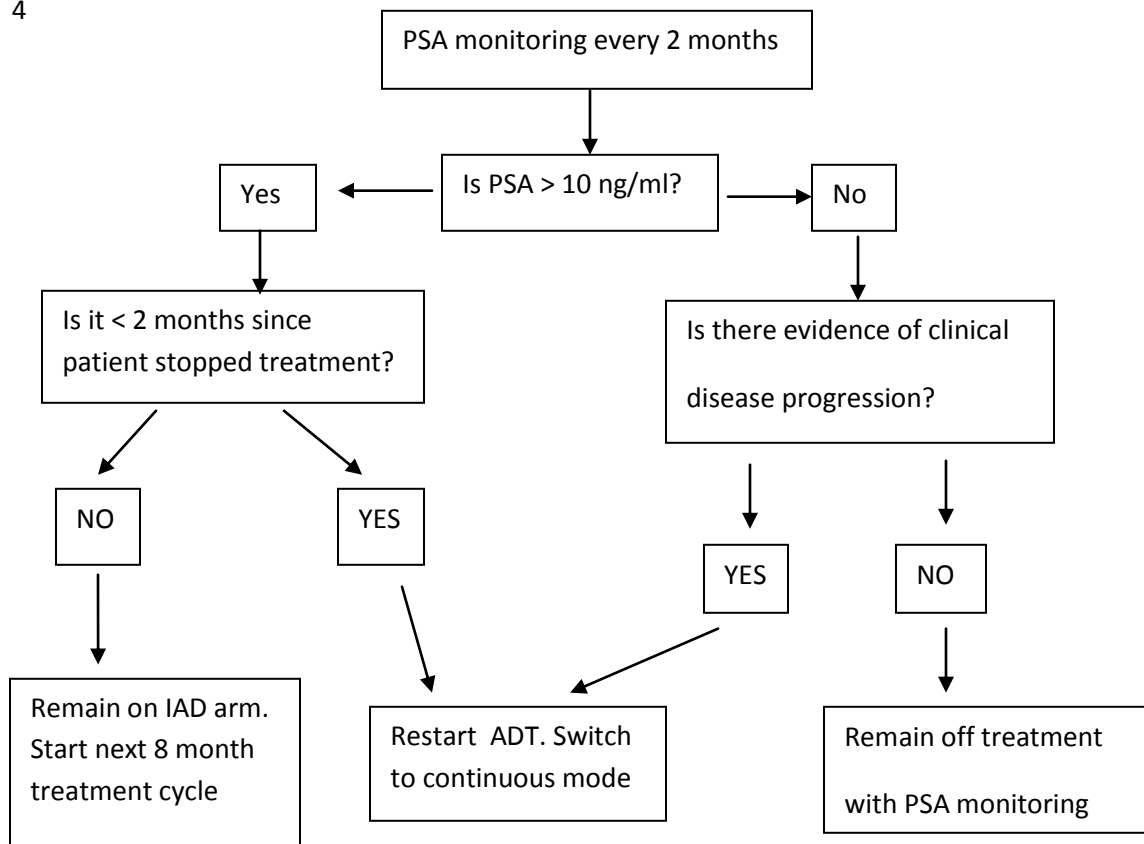
3 Figure S1: Treatment algorithm for patient in intermittent androgen deprivation arm to enter off
4 treatment interval.

5



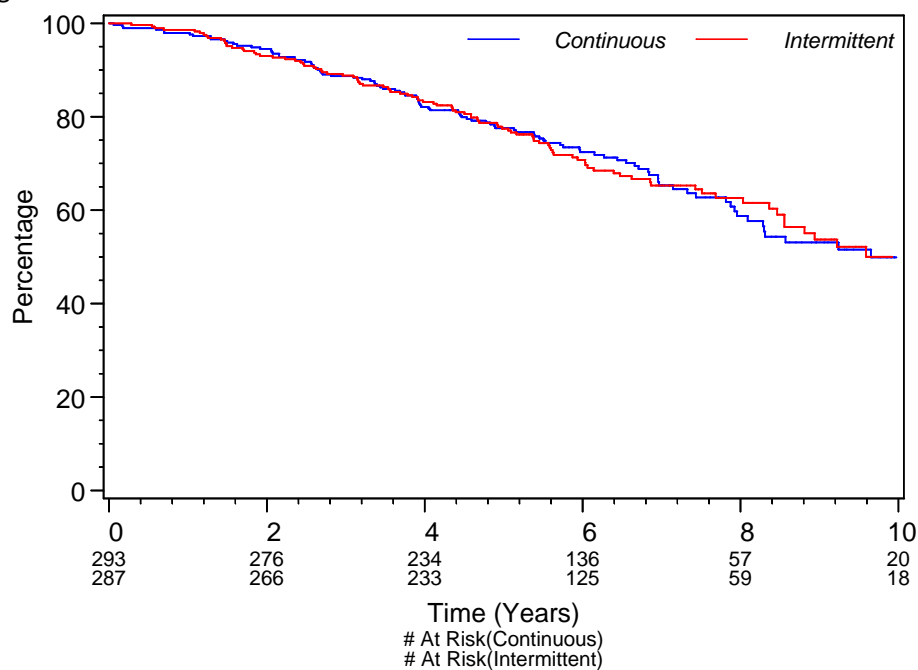
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Figure S2: Treatment algorithm for patient in off treatment interval to re-start treatment



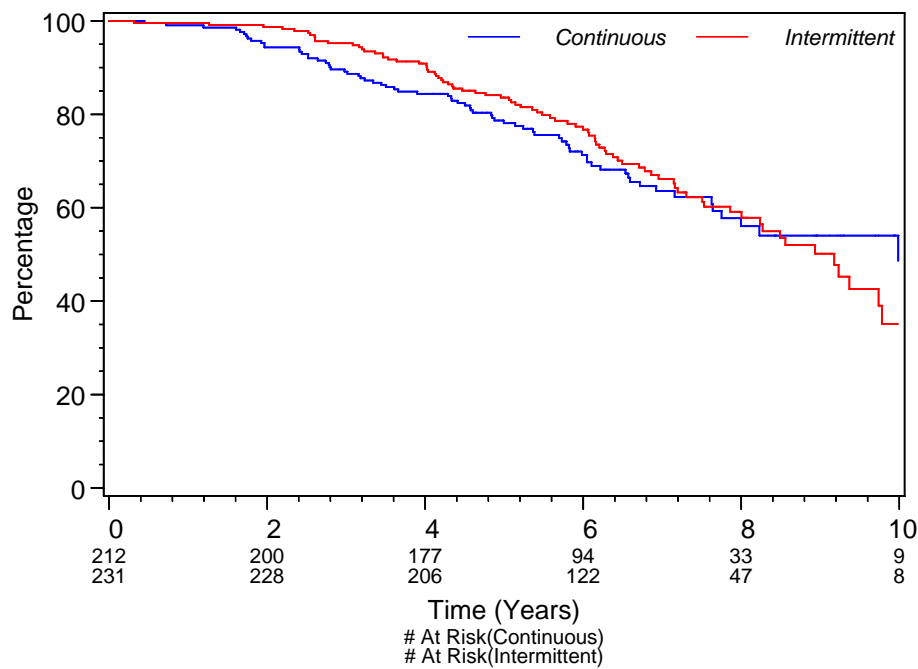
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1 Figure S3a



SUMMARY STATISTICS:
 Log-Rank test for equality of groups: $p=0.9954$
 Median for Continuous: 9.65 -95% C.I. (8.09 ,Inf)
 Median for Intermittent: 10.06 -95% C.I. (8.56 ,Inf)
 Hazard Ratio of Intermittent/Continuous: 1.001 - 95 % C.I. (0.758, 1.321)

2



SUMMARY STATISTICS:
 Log-Rank test for equality of groups: $p=0.8849$
 Median for Continuous: 9.99 -95% C.I. (7.75 ,Inf)
 Median for Intermittent: 9.18 -95% C.I. (8.00 ,9.78)
 Hazard Ratio of Intermittent/Continuous: 0.977 - 95 % C.I. (0.713, 1.339)

3

4 Figure S3b

Phase III Trial of Intermittent vs. Continuous Androgen Deprivation

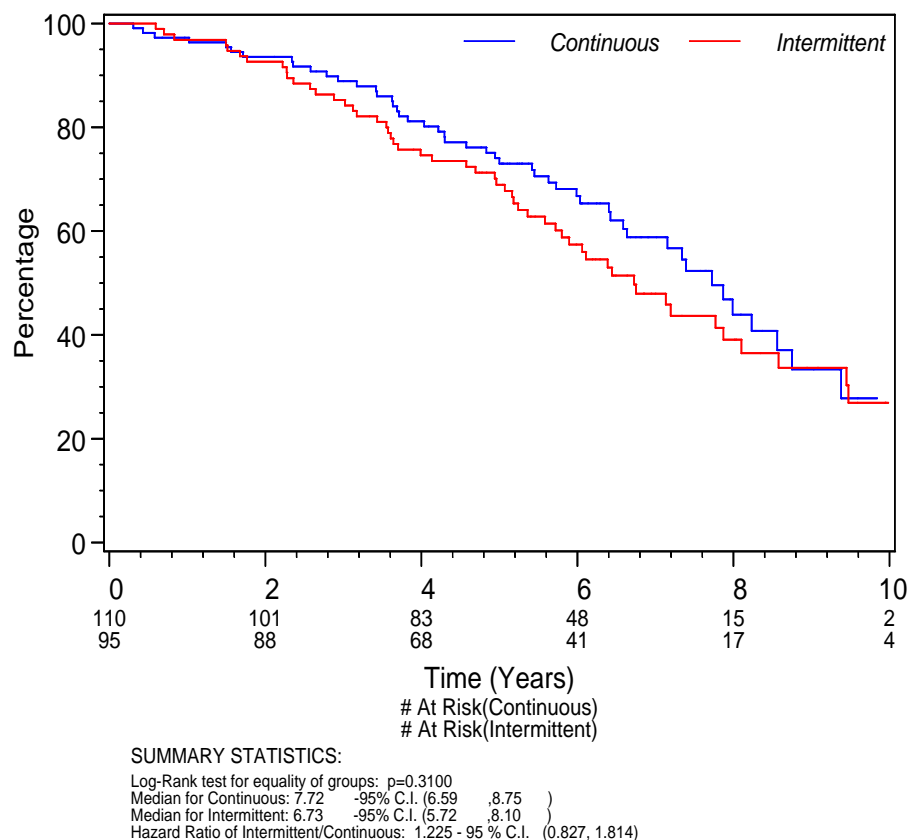
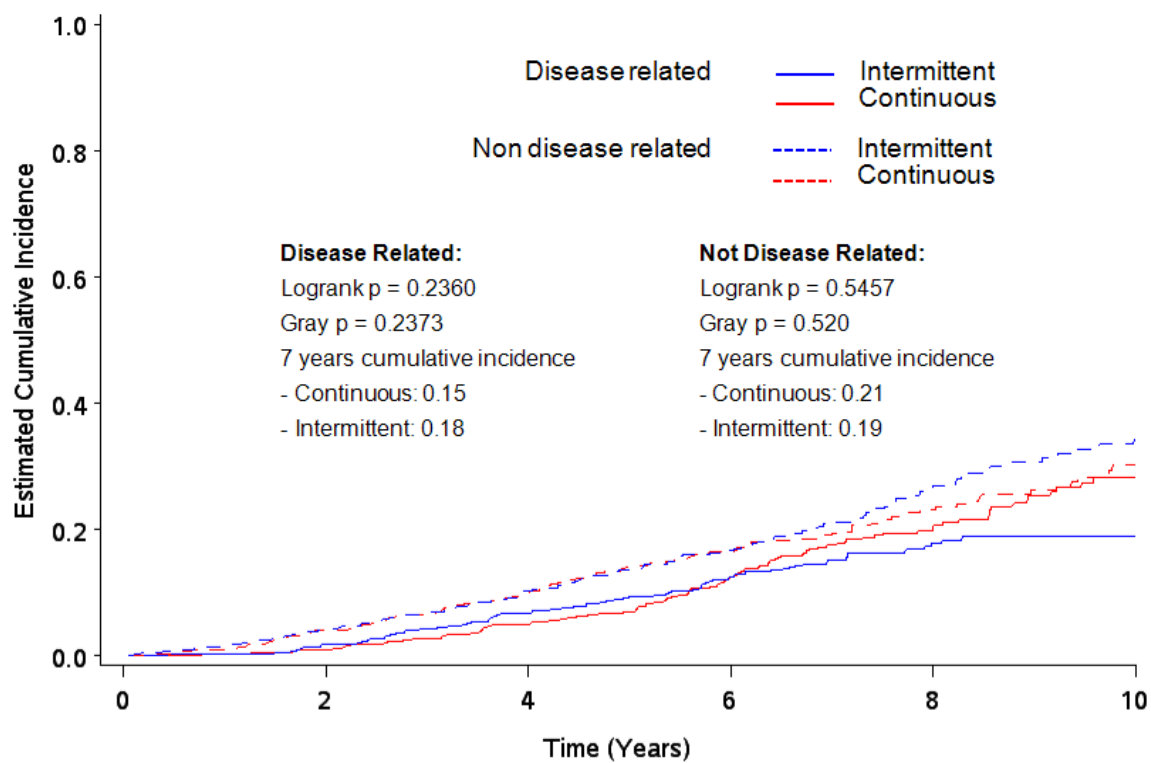


Figure S3c :

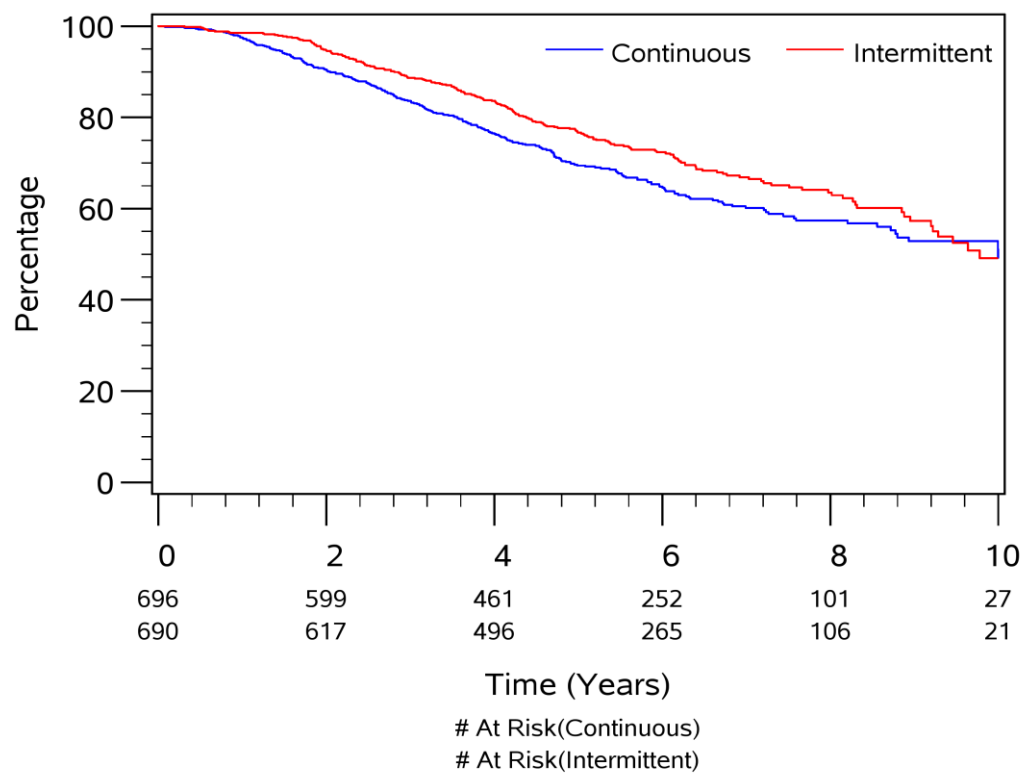
Figure S3: Gleason scores were not collected as part of the protocol design but were retrieved retrospectively from stored pathology reports and grouped as follows: unavailable: 9.2%, 2-6: 42.6%, 7: 33.0% and 8-10: 15.2%. Overall survival by treatment arm for 3 Gleason score groups, shows similar OS between treatment arms for Gleason score ≤ 6 (Fig. S3a) and 7 (Fig. S3b), while for Gleason score 8-10 (Fig. S3c), those on IAD had a trend to worse OS (HR of 1.21, $p = 0.33$). Cox regression model with treatment arm, Gleason score groups and their interaction terms show that there was no differential treatment effect among the 3 groups. The sample size of the study does not have the power to detect a small or moderate difference, but the approximately 14 month greater median survival for Gleason 8-10 receiving CAD suggests caution in this group.

Phase III Trial of Intermittent vs. Continuous Androgen Deprivation

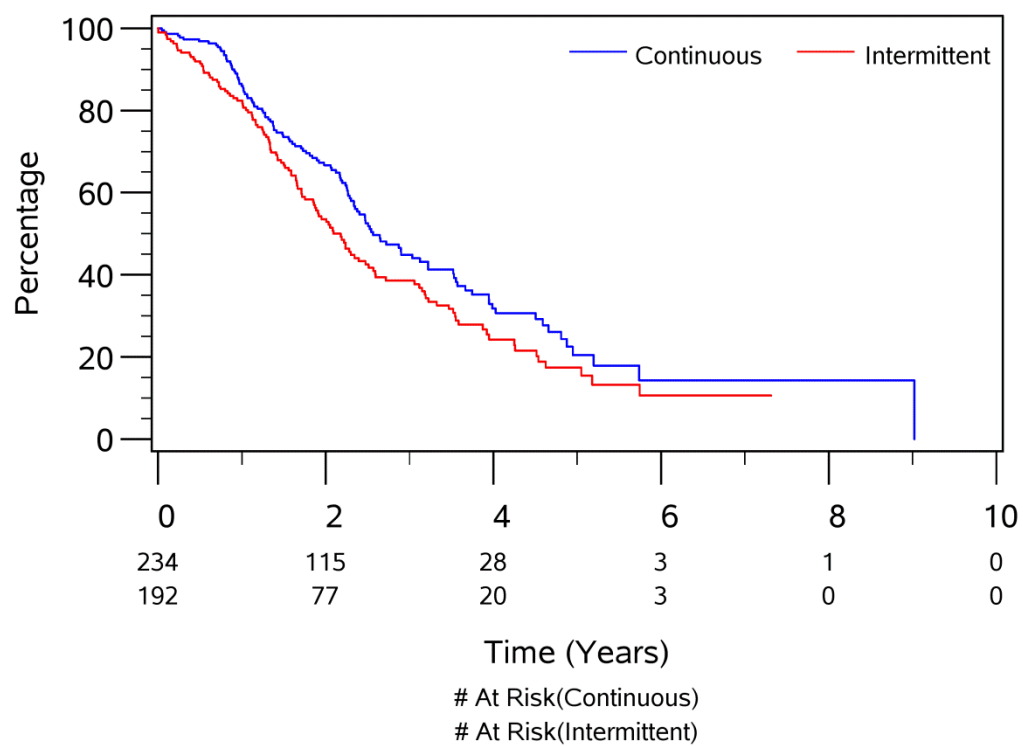
Figure S4: Cumulative Events Plot for Disease Specific Survival (Per Protocol Population)



Phase III Trial of Intermittent vs. Continuous Androgen Deprivation



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SUMMARY STATISTICS:

Median for Continuous: 2.57 -95% C.I. (2.34 ,3.22)
 Median for Intermittent: 2.18 -95% C.I. (1.85 ,2.51)

2

Phase III Trial of Intermittent vs. Continuous Androgen Deprivation

1

2 Figure S5: Kaplan-Meier plot by treatment arm of the time to castration resistance (top) and from
3 the time of declaration of castration resistance to death (bottom). There is an approximate 4
4 month difference observed in favor of the IAD arm in time to castration resistance. The authors
5 believe that this apparent difference is due to the way castration resistance was defined. Men in
6 the IAD arm who became CR while off treatment (rising PSA in the absence of any testosterone
7 recovery) had to be restarted on treatment and have 3 further rises in PSA before declared CR.
8 This delay in declaration of castration resistance in the IAD arm creates an apparent 4-month
9 advantage for the CAD arm in survival after castration resistance.

Phase III Trial of Intermittent vs. Continuous Androgen Deprivation

1 Table S1: Accrual by Cooperative Group

Region	IAD	CAD	Total
NCIC CTG	469	470	939
SWOG	79	84	163
UK-ICR CTSU	91	91	182
CTSU/RTOG	42	38	80
2 Total	681	683	1364

3 CTSU: Clinical Trials Support Unit

4 RTOG: Radiation Therapy Oncology Group

5 NCIC CTG: National Cancer Institute of Canada Clinical Trials Group

6 SWOG: South west Oncology Group

7 UK-ICR CTSU: United Kingdom Institute of Cancer Research Clinical Trials and Statistics

8 Unit

9

Phase III Trial of Intermittent vs. Continuous Androgen Deprivation

1 Table S2

2 Reasons for Ineligibility

	IAD	CAD	Total
Eligible	681	686	1367
Bone metastases	1		1
Prior malignancy	2	1	3
Elevated AST	1	2	3
Elevated creatinine	1		1
Low testosterone	1	1	2
Prior RT dose low	1		1
Prior HT > 12 months	1	3	4
Multiple reasons	1	2	3

3 AST : aspartate amino transferase

4 RT: radiotherapy

5 HT: hormone therapy

Phase III Trial of Intermittent vs. Continuous Androgen Deprivation

Adverse event	Intermittent arm				Continuous arm			
	Grade 4	Grade 5	Total	Related	Grade 4	Grade 5	Total	Related
Inner ear	1	0	34	1%	0	0	39	0
Edema			94	2%			81	2%
Hypertension	1		50	1%	1		47	2%
Cardiac ischemia	26	2	67	0	36	5	76	1%
Palpitations			9	1%			12	0
Thrombosis	12		27	1%	2		14	0
Hot flashes		1	620	90%			641	93%
Gynecomastia			272	38%			298	42%
Fatigue	2		394	37%	3		385	43%
Chills			17	1%			11	1%
sweating			31	4%			37	4%
Anorexia	3		150	7%	1		116	8%
Constipation			147	5%	1		162	5%
Diarrhea			223	11%			216	11%
Dry mouth			16	1%			13	1%
Flatulence			17	1%			18	1%
Dyspepsia			45	2%			60	2%
Nausea			179	16%			157	13%
Altered taste			11	1%			9	1%
Vomiting			66	3%			51	2%
Urine freq/urg			404	21%			383	23%
Incontinence			136	6%			149	8%
Dysuria			77	3%			42	2%
Retention			101	3%			97	2%
Rectal bleed			43	1%			49	1%
Hematuria		1	86	1%			63	1%
Arthritis	1		203	2%	3		182	2%
Muscle weakness	2		63	2%	2		70	6%
osteoarthritis			43	4%			60	7%
Hyperglycemia			28	1%			23	1%
Anxiety			47	2%			43	3%
Cerebral ischemia	5		13	0	11	3	27	1%
Confusion	3		29	0	1		29	1%
Dizziness			73	2%			91	5%
insomnia			247	19%			272	24%
Memory loss			38	1%			43	1%
Depression	1		63	4%			72	7%
Neuropathy-m			25	0	1		36	1%
Neuropathy-s			72	1%	1		77	3%
Lt-dk adaptation			23	3%			23	3%
Blurred vision			141	13%			167	15%
Night blind			6	1%			9	1%
Photophobia			38	5%			48	7%
Chest pain			49	1%	2		43	1%
Abdo pain	1		78	1%			54	1%
Headache			136	9%			130	10%
Arthralgia			288	6%	1		259	4%
Myalgia			183	4%	1		159	5%
Bone pain	4		242	3%	7		211	3%

Phase III Trial of Intermittent vs. Continuous Androgen Deprivation

Other pain			112	3%	2		75	2%
Cough			77	1%			82	1%
Pneumonitis	3	2	37	1%	5	1	41	1%
Dyspnea	7		216	8%	12	1	217	10%
Alopecia			45	5%			69	9%
Injection site Rx			49	6%			82	11%
Pruritis			19	1%			28	1%
Rash			54	2%	1		52	1%
Testicle atrophy			7	1%			11	1%
Impotence			593	53%			608	53%
Libido			546	55%			541	51%
Weight gain			149	16%			135	17%
Weight loss			67	2%			54	2%

1

2 **Table S3:** All adverse events are listed that were felt by investigators to be possibly, probably or
3 definitely related to protocol treatment. Any grade 4 or 5 events in these categories are listed, as
4 well as the total number (grade 1-5) and the percentage of the population that experienced
5 adverse events in each category felt to be related to the protocol treatment. For example,
6 although 86% of the population experienced impotence, in 53% it was felt to be due to the
7 protocol treatment.

8 Urine freq/urg: urinary frequency and urgency

9 Neuropath m/s: sensory and motor

10 Lt/dk adaptation: light/dark adaptation

Phase III Trial of Intermittent vs. Continuous Androgen Deprivation

1 Table S4: Phase 2 Trials of Intermittent Androgen Deprivation (*on-line version only*)

Author	Yr	N	F/U mo.	Stage	PSA nadir	Off Rx until	# cycle
Klotz et al ¹	86	20	36	D2	Pre PSA era	Pre PSA era	1-5
Higano et al ²	96	22	26	PSA failure + D2	<0.1	>10	1-3
Grossfield ³	98	47	24	T1c-4	0.1-4	>10	1-5
Goldenberg ⁴	99	87	65	A2-D2	4	10-20	1-5
Prapotnich ⁵	99	566	81	Advanced	<4	>10	1-12
Bouchot ⁶	00	44	44	D2	<4	>20	1-2
Strum ⁷	00	52	66	T1c-D2	0	>5	1-2
Sciarra ⁸	00	51	48	T2-T3 rising PSA	<4		5
Pether ⁹	03	102	50	A2-D2	<4	10-20	1-6
De la Taille ¹⁰	03	146	46	T1-4, M1	<4	>10	1-8
Lane ¹¹	04	75	134	All	<4	>20	1-3
Malone ¹²	05	95	69	All	<4	>10	1-7
Cury ¹³	06	39	56	T1-3	<4	>10	1-4
Bruchovsky ¹⁴	06	103	50	T1b-T3rising PSA	<4	>10	1-5
Spry ¹⁵	06	250	30	All	<4	>20	1-2

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Phase III Trial of Intermittent vs. Continuous Androgen Deprivation

1 Table S5: Phase 3 Trials of Intermittent Androgen Suppression

Trial	Stage	N	Results
SWOG 9346 ¹⁶	D2	1512	Pending
SEUG (Portugal) ¹⁷	T3,4 or M1	914	No difference in OS
AP17/95 (Germany) ¹⁸	T3,4 or M1	335	No diff in TTP or OS
EC507 (Europe) ¹⁹	Post RP rising PSA	167	No diff TTP
Erasmus ²⁰	M1	366	QOL better
TULP (Netherlands) ²¹	T3,4, M1	193	Longer TTP in CAS (NS)
De Leval ²² (Belgium)	T3,4, M1, post RP	68	TTP favoring IAS
Yamanaka ²³	T3,4, adjuvant	188	Short f/u, no diff

2

3

Phase III Trial of Intermittent vs. Continuous Androgen Deprivation

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- 2 following neoadjuvant endocrine therapy and external beam radiation therapy in men with locally
- 3 advanced prostate cancer. *Prostate* 2005;63:56-64.

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